INTERNATIONAL SEARCH REPORT

Application No - US2004/018536

A. CI ASSI	IFICATION OF SUBJECT MATTER		US2004/018536
IPC 7		3/025 F01N3/08	3
According to	o International Patent Classification (IPC) or to both national cla	annissa.	
B. FIELDS	SEARCHED		
Minimum do	ocumentation searched (classification system followed by class	sification symbols)	
IPC 7	FOIN , MARINES, GLAZ		
Documentat	tion searched other than minimum documentation to the extent	that such documents are include	ded in the fields searched
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EPO-In	lata base consulted during the international search (name of daternal, PAJ	ata base and, where practical, s	search terms used)
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT		
Category °	Citation of document, with Indication, where appropriate, of ti	ha salawa a	
	, manufaction, where appropriate, of the	ne relevant passages	Relevant to claim No.
X	US 6 487 852 B1 (MURPHY KEVIN AL) 3 December 2002 (2002-12-0	13)	1
1	column 1, line 7 - column 3, 1 figure 1	2,3	
·	EP 1 273 773 A (TOYOTA MOTOR C 8 January 2003 (2003-01-08)	1~3	
١	paragraph '0021! — paragraph ' figure 1	10,25,26	
(US 2002/178716 A1 (HAMMERLE RO ET AL) 5 December 2002 (2002-1	10,13	
Y	paragraph '0016! - paragraph '	1-3,5, 7-9,15,	
	figure 1		17
		-/	
V] =	or downstall and the later		
	er documents are listed in the continuation of box C.	X Patent family me	mbers are listed in annex.
document conside	egories of cited documents : nt defining the general state of the art which is not ered to be of particular relevance		ned after the international filing date of in conflict with the application but he principle or theory underlying the
documen."	nt which may throw doubts on priority claim(s) or	"X" document of particular cannot be considered involve an inventive s	relevance; the claimed invention I novel or cannot be considered to step when the document is taken along
document other ma	or other special reason (as specified) It referring to an oral disclosure, use, exhibition or eans It published prior to the intermational filling data to the	cannot be considered document is combine ments, such combine	relevance; the claimed invention d to involve an inventive step when the dd with one or more other such docu- tion being obvious to a person skilled
Talor Giu	the priority date claimed clual completion of the international search	*&* document member of i	the same patent family
	January 2005	İ	International search report
	ailing address of the ISA	24/01/200	05
	European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Louchet,	N
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INTERNATIONAL SEARCH REPORT

Application No JS2004/018536

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5 950 422 A (DOELLING WINFRIED) 14 September 1999 (1999-09-14) column 2, line 3 - column 7, line 16 figures 1-3	1-3,5, 7-9
X	EP 1 149 991 A (FORD GLOBAL TECH INC) 31 October 2001 (2001-10-31)	22,23,27
Υ	paragraph '0001! - paragraph '0012! figures 1-3	15,17
X	US 6 119 448 A (EMMERLING GERHARD ET AL) 19 September 2000 (2000-09-19) column 1, line 8 - column 9, line 31 figures 1-5	1
A	DE 100 43 613 A (FEV MOTORENTECH GMBH) 14 February 2002 (2002-02-14) paragraph '0009! - paragraph '0018! figures 1,2	10,13, 25-27
A	US 6 023 930 A (IWAMOTO YOSHIHIDE ET AL) 15 February 2000 (2000-02-15) the whole document	1,10
A	US 2003/089104 A1 (COLIGNON CHRISTOPHE) 15 May 2003 (2003-05-15) paragraphs '0001! - '0010! figures 1-3	1,10
A	EP 1 111 211 A (FORD GLOBAL TECH INC) 27 June 2001 (2001-06-27) paragraph '0008! - paragraph '0022! figures 1,2	1

INTERNATIONAL SEARCH REPORT

Application No JS2004/018536

							2004/010220
cited	atent document d in search report		Publication date		Patent family member(s)		Publication date
US	6487852	B1	03-12-2002	DE	10240399	Λ1	30-04-2003
				GB	2381762		14-05-2003
		·					TT UJ 2005
Ł٢	1273773	Α	08-01-2003	JP	2003013732		15-01-2003
				EP	1273773		08-01-2003
115	2002178716		25 12 222				
UJ	Z0021/2/10	A1	05-12-2002	US	2002175212	A1	28-11-2002
				US	2003113242	A1	19-06-2003
				US	2003113249	A1	19-06-2003
U\$	5950422	Α	14-09—1999	AT	177500		
		• • • • • • • • • • • • • • • • • • • •	17 03 1335	CN	177509		15-03-1999
				WO	1198798		11-11-1998
				DE	9712129	A2	03-04-1997
				DE EP	59601433	D1	15-04-1999
					0852662		15-07-1998
				ES	2129993		16-06-1999
				JP	3285877		27-05-2002
				JP	10512647		02-12-1998
				RU	2138654	C1	27-09-1999
			بيد س. جد س.سه دست بد کا چه که جد خو سه ک	DK	852662	Т3	04-10-1999
ΕP	1149991	Α	31-10-2001	US	6470673	D1	20 10 2002
				EP	1149991		29-10-2002
						MZ 	31-10-2001
US	6119448	Α	19-09-2000	DE	19736384	A1	25-02-1999
				DE	59810976	D1	22-04-2004
				EP	0898061	A2	24-02-1999
				TR	9801663	A2	21-06-1999
UE	10043613		14.00.000				
DE	10043013	A	14-02-2002	DE	10043613	A1	14-02-2002
US	6023930	Α	15-02-2000	JP	9013946	A	14 01 1007
				ÜS	6021639	A 1	14-01-1997
							08-02-2000
US	2003089104	A1	15-05-2003	FR	2832183	A 1	16-05-2003
				AT	272166	T	15-08-2004
				DE	60200823	Ď1	02-09-2004
				EP	1310640	A1	14-05-2003
				JP	2003166417		13-06-2003
ΕP	1111211	———. А	27-06-2001		C1 C7 C0 C		
		^	2/-00-2001	US	6167698		02-01-2001
				CA EP	2329090		21-06-2001
				Er	1111211	A2	27-06-2001